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<input type="checkbox"/>	L12	L9 and (compar\$ same attribute)	33
<input type="checkbox"/>	L11	L9 and oriented	63
<input type="checkbox"/>	L10	L9 and UML	1
<input type="checkbox"/>	L9	L8 and (compare or comparing)	104
<input type="checkbox"/>	L8	L7 and identify\$	138
<input type="checkbox"/>	L7	L4	171
<input type="checkbox"/>	L6	L4 and l1	4
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<input type="checkbox"/>	L5	L4	0
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<input type="checkbox"/>	L4	L3 and attribute	171
<input type="checkbox"/>	L3	L2 and device driver	386
<input type="checkbox"/>	L2	(preload\$ or pre?set or presetting) and install\$	28203
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<input type="checkbox"/>	L1	717/106-123,168-178.ccls.	3281

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





preload "Device Driver"

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Results **1 - 20** of about **75** for **preload object oriented attribute UML "Device Driver"** . Search took 0.59 seconds. ([About this page...](#))

1. [http://www.magnicomp.com/sysinfo/examples/redhat-7.1-x86/all\\_report\\_msglevel\\_all.text](http://www.magnicomp.com/sysinfo/examples/redhat-7.1-x86/all_report_msglevel_all.text)   
... MAX | Maximum value an **object** of type int can hold ... MAX | Maximum value an **object** of type ssize\_t can ...  
PSE ...  
[www.magnicomp.com/sysinfo/examples/redhat-7.1-x86/all\\_report\\_msglevel\\_all.text](http://www.magnicomp.com/sysinfo/examples/redhat-7.1-x86/all_report_msglevel_all.text) - 524k - [Cached](#)
2. <http://www.cybernet.adsl.dk/ftp/SuSE/8.0/ChangeLog>   
15557) ++++ k\_smp: - Fixed RPC congestion handling broken by nfs-tcp-tweaks patch which caused devastating  
[www.cybernet.adsl.dk/ftp/SuSE/8.0/ChangeLog](http://www.cybernet.adsl.dk/ftp/SuSE/8.0/ChangeLog) - 525k - [Cached](#)
3. <http://ftp.tiscali.nl/conectiva/8/doc/PACKAGES>   
ElectricFence - A debugger which detects memory allocation violations. If you know what malloc() violations are, y  
used for C programming and debugging. ... use editor which is both network- **oriented** and very secure ... and inc  
**object-oriented** derivative of the C ...  
[ftp.tiscali.nl/conectiva/8/doc/PACKAGES](http://ftp.tiscali.nl/conectiva/8/doc/PACKAGES) - 372k - [Cached](#)
4. [Installed RPMS on my Red Hat 9 System](#)   
... tools for XML processing and **object**-databases. It contains the ... and includes support for **UML** static structure ...  
[www.webdragon.net/rpmdb/rpmdbdescr.html](http://www.webdragon.net/rpmdb/rpmdbdescr.html) - 313k - [Cached](#)
5. [RPMs Included in the Red Hat for S/390 version 7.2](#)   
... tools for XML processing and **object**-databases. It contains the ... if you need a utility for time-**oriented** job con  
[www.linuxvm.org/Info/redhat.html](http://www.linuxvm.org/Info/redhat.html) - 393k - [Cached](#)
6. <http://ftp.asp-linux.com/i386/RPMS.7.3/Packages1>   
It contains the following components: 4DOM is an implementation of the W3C's standard DOM API for HTML and  
on the IDL used in the formal DOM spec. ... tools for XML processing and **object**-databases. It contains the ... if y  
[ftp.asp-linux.com/i386/RPMS.7.3/Packages1](http://ftp.asp-linux.com/i386/RPMS.7.3/Packages1) - 409k - [Cached](#)
7. <http://packages.debian.org/testing/allpackages>   
Subprograms - Dev. files for LAM blacs-lam-test (1.1-21) Basic Linear Algebra Comm. Subprograms - Test files fo  
- Dev.  
[packages.debian.org/testing/allpackages](http://packages.debian.org/testing/allpackages) - [More pages from this site](#)
8. <http://lists.fresco.org/pipermail/fresco-devel/2000-January.txt>   
to be able > to adapt to future changes in input devices. ...  
[lists.fresco.org/pipermail/fresco-devel/2000-January.txt](http://lists.fresco.org/pipermail/fresco-devel/2000-January.txt)
9. [The Hurd Packages at ftp.us.debian.org](#)   
... arpack++ 2.1-3. devel. **object-oriented** version of the ARPACK package ... 16-2. graphics. **Device driver** sour  
[www.cornmania.de/hurd/ftp.us.debian.org.html](http://www.cornmania.de/hurd/ftp.us.debian.org.html) - 524k - [Cached](#)
10. <http://packages.debian.org/unstable/allpackages>   
Subprograms - Dev. files for LAM blacs-lam-test (1.1-21) Basic Linear Algebra Comm. Subprograms - Test files fo  
- Dev.  
[packages.debian.org/unstable/allpackages](http://packages.debian.org/unstable/allpackages) - [More pages from this site](#)

11. [freshmeat.net: Releases announced Thursday, January 23rd 2003](#)   
freshmeat maintains the Web's largest index of Unix and cross-platform open source software. Thousands of app new code ... System is an LD\_PRELOAD module for manipulating what ... create flow charts, maps, UML diagram oriented CGI applications ...  
[freshmeat.net/daily/2003/01/23](#) - 374k - [Cached](#)
12. <http://www.debian.org/mirrors/Debian/debian-archive/dists/potato/main/binary-i386/Packages/3c5x9setup> : EEPROM setup and diagnostic program for the 3Com 3c5x9 series ethercards el3diag : Diagnostic optional Section: games Installed-Size: 80 Maintainer: Robert S. ... technology with the **object oriented** paradigm a ...  
[www.debian.org/mirrors/Debian/debian-archive/dists/potato/main/binary-i386/Packages](http://www.debian.org/mirrors/Debian/debian-archive/dists/potato/main/binary-i386/Packages) - 541k - [Cached](#) - [More p](#)
13. <http://www.debian.org/mirrors/Debian/debian-archive/dists/potato/main/binary-alpha/Packages>  
Package: 3dchess Priority: optional Section: games Installed-Size: 93 Maintainer: Robert S. ... technology with the **oriented** paradigm. Aleph has a ... technology with the **object oriented** paradigm. Aleph has a ...  
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14. [FreeBSD Ports Collection Index](#)   
... NetRexx-2.02\_2 – Human-oriented programming language for writing ... argouml-0.12 – A UML design tool w  
[linux.inhk.net/mirror/freebsd-www/data/ports/master-index.html](http://linux.inhk.net/mirror/freebsd-www/data/ports/master-index.html)
15. <http://www.ext.netg.se/debian/dists/potato/main/binary-arm/Packages>   
Package: 3dchess Priority: optional Section: games Installed-Size: 80 Maintainer: Robert S. ... technology with the **oriented** paradigm. Aleph has a ... technology with the **object oriented** paradigm. Aleph has a ...  
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16. <http://ftp.es.debian.org/debian/dists/sid/main/binary-hurd-i386/Packages>   
This is the traditional rdist from 4.BSD Lite with FreeBSD fixes. It is provided for compatibility with third-party rdis Linux 2.4 ... bindings that support the **object oriented** paradigm. Aleph has a ... naturally matching the +id+ attril  
[ftp.es.debian.org/debian/dists/sid/main/binary-hurd-i386/Packages](http://ftp.es.debian.org/debian/dists/sid/main/binary-hurd-i386/Packages)
17. <http://ftp3.jp.freebsd.org/archives/linux/debian/debian-ddtp/dists/fr/sarge/main/binary-i386/Pack>  
Trois échiquiers, 96 pièces et 26 directions. Package: 3ddesktop Priority: optional Section: utils Installed-Size: 400  
[ftp3.jp.freebsd.org/archives/linux/debian/debian-ddtp/dists/fr/sarge/main/binary-i386/Packages](http://ftp3.jp.freebsd.org/archives/linux/debian/debian-ddtp/dists/fr/sarge/main/binary-i386/Packages) - 524k - [Cached](#)
18. <http://mirror.ctrlaltdel.ch/debian/dists/testing/main/binary-hppa/Packages>   
There are three boards, stacked vertically; 96 pieces of which most are the traditional chess pieces with just a cou  
[mirror.ctrlaltdel.ch/debian/dists/testing/main/binary-hppa/Packages](http://mirror.ctrlaltdel.ch/debian/dists/testing/main/binary-hppa/Packages) - 524k - [Cached](#)
19. [Linux Gazette Table of Contents LG #92](#)   
... Or they'll preload a dual boot, or can customize ... that the loop block **device driver** will treat as if it ... be a dow  
[www.linuxgazette.com/issue92/TWDT.html](http://www.linuxgazette.com/issue92/TWDT.html) - 212k - [Cached](#)
20. [Issue 92 - July 2003](#)   
Article reprint from www.LinuxGazette.com. Issue 92 - July 2003. Articles. select() on Message Queue. select() on  
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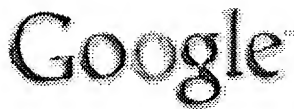
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preload "Device Driver" attribute

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### Microsoft Windows XP - Glossary

... A file used by the Domain Name System (DNS) server to **preload** its names ... as having been backed up (in other words, the archive **attribute** is not ... **device driver**. ...  
[www.microsoft.com/resources/documentation/Windows/XP/all/reskit/en-us/gloss\\_rk\\_pro.asp](http://www.microsoft.com/resources/documentation/Windows/XP/all/reskit/en-us/gloss_rk_pro.asp) - 101k -  
[Cached](#) - [Similar pages](#)

### Internet Explorer 5.0 Resource Kit: Microsoft Internet Explorer 5 ...

... You can **preload** the Favorites menu with pointers to ... video cameras, and the new video **device driver** model. ... enables you to specify the Exchange **attribute** for the ...  
[www.microsoft.com/resources/documentation/ie/5/all/reskit/en-us/part1/ch02comp.mspx](http://www.microsoft.com/resources/documentation/ie/5/all/reskit/en-us/part1/ch02comp.mspx) - 75k -  
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### docs.sun.com: X Server Device Developer's Guide

... so.1" # initFunc="ACMExtnExtensionInit" # **preLoad**="NO"; # End ... value of the device **attribute** depends on whether a kernel graphics **device driver** is associated ...  
[docs.sun.com/db/doc/802-5903/6i9km3agl?a=view](http://docs.sun.com/db/doc/802-5903/6i9km3agl?a=view) - 40k - [Cached](#) - [Similar pages](#)

### [PDF] MAC Framework Port to OpenDarwin Brown Bag Lunch

File Format: PDF/Adobe Acrobat - [View as HTML](#)  
... primitive Modify BootX to **preload** non-binary ... System Call Layer IOKit **Device Driver** Framework Process ... Support Libraries Extended **attribute** system calls ...  
[www.madchat.org/sysadm/20040219-cboss-apple-brownbag.pdf](http://www.madchat.org/sysadm/20040219-cboss-apple-brownbag.pdf) - [Similar pages](#)

### newbus integration of MOD\_QUIESCE

... disappears or would it make it impossible to **preload** a **device driver** and provide ...  
RFC 956 FreeBSD committer | BSD since 4.3-tahoe Never **attribute** to malice ...  
[lists.freebsd.org/pipermail/freebsd-arch/2004-July/002436.html](http://lists.freebsd.org/pipermail/freebsd-arch/2004-July/002436.html) - 10k - [Cached](#) - [Similar pages](#)

### Chapter 32 -- Creating Netscape Navigator Plug-Ins

... a full-duplex, modular connection to a given **device driver**. ... LiveCache also enables you to **preload** content from ... be specified in the PLUGINSOURCE **attribute** of the ...  
[docs.rinet.ru/WPU/ch32.htm](http://docs.rinet.ru/WPU/ch32.htm) - 55k - [Cached](#) - [Similar pages](#)

### Workplace Shell Programming Reference

... whose value depends on the mouse **device driver** currently loaded ... mix -An **attribute** that determines how the ... before module execution begins (**preload**), or loadable ...  
[www.warpspeed.com.au/cgi-bin/inf2html.cmd?..%5Chtml%5Cbook%5CToolkit40%5CWPS3.INF+738](http://www.warpspeed.com.au/cgi-bin/inf2html.cmd?..%5Chtml%5Cbook%5CToolkit40%5CWPS3.INF+738) - 12k -  
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### < Installation instructions for Warp FixPak XR\_W022 August 6, 1996 ...

... Manufacturing Refresh Connect XR\_3005 Warp **Preload** XR\_3005 Warp ... When these display **device driver** become available "Publicly ... have the Read-Only **attribute** set. ...  
[hobbes.nmsu.edu/pub/os2/system/patches/fixpack/warp\\_3/xr\\_w022.rm1](http://hobbes.nmsu.edu/pub/os2/system/patches/fixpack/warp_3/xr_w022.rm1) - 51k - [Cached](#) - [Similar pages](#)

### SMIT Help Information for Ethernet Adapters

... The **device driver** will poll the adapter for a Link status ... This **attribute** holds values ranging from 100 to 1000 ... of bytes that the adapter can **preload** into its ...  
[lmhibm5.epfl.ch/doc\\_link/C/a\\_doc\\_lib/aixhelp/smithelp/smit\\_ethernet.htm](http://lmhibm5.epfl.ch/doc_link/C/a_doc_lib/aixhelp/smithelp/smit_ethernet.htm) - 21k - Supplemental Result -

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### Installing Debian GNU/Linux 2.2 For Alpha

... We require that you properly **attribute** Debian and the ... 7.5 **Preload Drivers**; 7.6 Last  
Chance! ... 7.12 ``Configure **Device Driver** Modules"; 7.13 ``Configure the Network ...

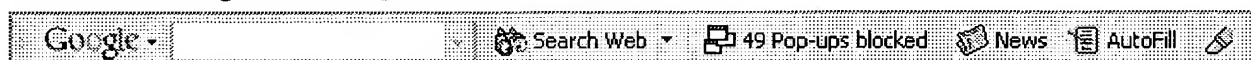
softcity.libero.it/debian/dists/potato/ main/disks-alpha/2.2.20-2000-12-03/doc/install.en.html - 12k - Supplemental Result

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[Report on the Development, Structure and Performance of ATM.. - Richard Black \(Correct\)](#)  
the Development, Structure and Performance of ATM **Device drivers** for the Personal Computer operating  
<ftp.cl.cam.ac.uk/public/papers/ATM/docs-95-10/06.ps.gz>

[Signalling Protocol for P4 \(SPP4\), version 1.0 - Hadzic \(1998\) \(Correct\)](#)  
doing the actual processing. The purpose of this **preloading** is to allow the policy module to (if  
it. The third element is the platform specific **device driver**. Policy modules and signalling protocol  
The third element is the platform specific **device driver**. Policy modules and signalling protocol both use  
[www.cis.upenn.edu/~boosters/SPP4.ps](http://www.cis.upenn.edu/~boosters/SPP4.ps)

[North American ISDN Users' Forum Application Software Interface .. - Part Ms-Dos \(Correct\)](#)  
shall be "ARDDAE00" and "ARDDPE00"2. The **device attribute** word in the **device** header shall be coded such  
3.0. Address Resolution **Device**  
referred to as the Address Resolution **Device Driver** (ARDD) This **device driver** is defined in detail  
[isdn.ncsl.nist.gov/niuf/404-92-2.ps](http://isdn.ncsl.nist.gov/niuf/404-92-2.ps)

[The FreeBSD Audio Driver - Rizzo \(1997\) \(Correct\) \(1 citation\)](#)  
the definition of a software interface for **audio devices** which is well suited to multimedia applications.  
The FreeBSD Audio **Driver** Luigi Rizzo Dip. di Ingegneria  
Abstract. We recently developed an **audio driver** in the FreeBSD operating system. In this work, we  
[www.iet.unipi.it/~luigi/cost237.ps.gz](http://www.iet.unipi.it/~luigi/cost237.ps.gz)

[Dynamic Memory Disambiguation Using the Memory Conflict Buffer - Gallagher \(1994\) \(Correct\) \(56 citations\)](#)  
introduction of at most two new instructions: 1) **preload**, which performs a normal load operation, but  
[www.cag.lcs.mit.edu/~mfrank/collect/ARB/gallagher:asplos:94.ps.gz](http://www.cag.lcs.mit.edu/~mfrank/collect/ARB/gallagher:asplos:94.ps.gz)

[Networking Performance for Microkernels - Maeda, Bershad \(1992\) \(Correct\) \(18 citations\)](#)  
to send outgoing packets to an in-kernel ethernet **device driver**. Incoming packets are read by the **device**  
outgoing packets to an in-kernel ethernet **device driver**. Incoming packets are read by the **device driver**  
**driver**. Incoming packets are read by the **device driver** and then demultiplexed to user tasks (normally  
<ftp.cs.cmu.edu/project/mach/doc/published/netperf.ps>

[Machine-Level Class Representation For An Adaptive.. - Lutz Wohlrab \(Correct\)](#)  
for instance, allow to load new code for new **device drivers** and to make them available during  
instance, allow to load new code for new **device drivers** and to make them available during runtime. 1  
creation of an instance of an already known **device driver** or, more generally, regarding object-oriented  
[www.tu-chemnitz.de/informatik/osg/papers/95/icsber.ps.gz](http://www.tu-chemnitz.de/informatik/osg/papers/95/icsber.ps.gz)

[On the Optimality of the Simple Bayesian Classifier under.. - Domingos, Pazzani \(1997\) \(Correct\) \(84 citations\)](#)  
Bayesian classifier is known to be optimal when **attributes** are independent given the class, but the  
[www.ics.uci.edu/~pedrod/mlj97.ps.gz](http://www.ics.uci.edu/~pedrod/mlj97.ps.gz)

[Mechanisms and Interfaces for Software-Extended Coherent Shared.. - Chaiken \(1994\) \(Correct\) \(4 citations\)](#)  
to have been one of his first students at MIT and **attribute** much of my success to his guidance. Frans  
<ftp.cag.lcs.mit.edu/pub/papers/chaiken-dissert-1-10.ps.Z>

[Towards a Common Object Model and API for Accelerator Controls - Di Maio \(Correct\)](#)  
to describe the important concepts (**device**, **attributes**.and to decompose the objects up to the  
issues, to describe the important concepts (**device**, **attributes**.and to decompose the objects up  
[adwww.fnal.gov/www/icalepcs/abstracts/Postscript/m4bb.ps](http://adwww.fnal.gov/www/icalepcs/abstracts/Postscript/m4bb.ps)



CSDC - The MoTiV Car Speech Data Collection - Langmann, Pfitzinger.. (1998) (Correct) (5 citations)  
rides in advance. It turned out that not all the **devices** can resist the large mechanical stress. 3) The multi-channel recorded speech data from about 640 **drivers** were collected in seven different mid- to by freeing the hands and the attention of the **driver** from choosing the right buttons somewhere on the www.phonetik.uni-muenchen.de/Publications/Pfitzinger\_LREC98b.ps

Performance evaluation of CP-PACS on CG benchmark - Ken'ichi Itakura (1997) (Correct)  
we introduce preceding memory access instructions **preload** and **poststore**, which correspond to load and www.hal.rcast.u-tokyo.ac.jp/~nakamura/papers/Parallel/HPCASIA97-2.ps.Z

A New Audio Device Driver Abstraction - Reed (1998) (Correct) (1 citation)  
A new audio **device driver** abstraction Dickon Reed Computer  
A new audio **device driver** abstraction Dickon Reed Computer Laboratory,  
audio and video"1998 Traditional audio **device drivers** are unable to provide low latency audio services  
www.cl.cam.ac.uk/Research/SRG/netos/pegasus/papers/audio.ps.gz

Tolerating Data Access Latency with Register Preloading - William Chen (1992) (Correct) (4 citations)  
1 Tolerating Data Access Latency with Register **Preloading** William Y. Chen Scott A. Mahlke Wen-mei W.  
ftp.crhc.uiuc.edu/pub/IMPACT/conference/ics-92-preload.ps

Concurrent Object-Oriented Device Driver Programming in.. - Itoh, Yokote (1994) (Correct) (3 citations)  
Memo SCSL-TM-94-005 Concurrent Object-Oriented **Device Driver** Programming in Apertos Operating System  
SCSL-TM-94-005 Concurrent Object-Oriented **Device Driver** Programming in Apertos Operating System  
low-level OS components, especially **device drivers**. We introduce the notion of concurrent objects  
ftp.csl.sony.co.jp/CSL/CSL-Papers/94/SCSL-TM-94-005.ps.Z

Plan 9, A Distributed System - Dave Presotto (1991) (Correct) (3 citations)  
to the new file (or directory)stat -get the **attributes** of the file pointed to. wstat -change the  
file servers. They can also represent physical **devices** such as terminals or complex abstractions such  
file systems can be implemented by kernel resident **drivers**, by user level processes, or by remote servers.  
http.cs.berkeley.edu/~gribble/osprelims/F95/papers/plan9\_new.ps.gz

Dynamic Network Reconfiguration Support for Mobile Computers - Jon Inouye (1997) (Correct) (12 citations)  
mobile laptop users to select the best network **device** for their current environment. Unfortunately, the  
physical network **device** are passed by the **device driver** up to the network layer. Packets do not flow  
not flow between the network stack and the **device driver** when the **driver's** network interface is  
cse.ogi.edu/pub/dsrg/synhetix/mobicom97.ps.gz

A Discussion of Zero Spring Rate Mechanisms Used for the.. - John Teter Jr (1999) (Correct)  
This produces a negative stiffness related to the **preload** in the arm. Theoretically this negative  
much thinner than a compression spring, the whole **device** could be made much shorter. In practice, the leaf  
techreports.larc.nasa.gov/pub/techreports/larc/1999/tm/NASA-99-tm209723.ps.Z

Condition Assessment Of Concrete Structures By Dynamic.. - Genda Chen Asce (Correct)  
rongo.ce.jhu.edu/emd99/sessions/sessions/papers/gchen1.pdf

Performance Comparison Of Video Transport Over ATM.. - Hossain, Kang, Horst (Correct)  
are not taken to improve the situation. We **attribute** this degradation to increased internal kernel  
high speed connection among processors and I/O **devices** in a cluster[4]5]ServerNet is a  
(thus establishing the chain)The ServerNet **driver** initializes the transfer by writing the MM  
berserk.vlsi.uiuc.edu/people/ashfaq/ieee.mm97.ps

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1 [Virtual machine monitors: Terra: a virtual machine-based platform for trusted computing](#)

Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available: [pdf\(140.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, dedicated, tamper-resistant hardware platform, while retaining the ability to run side-by-side with normal applications on a general-purpose computing platform. Terra achieves this synthesis by use of a *trusted virtual machine monitor* (TVMM ...

**Keywords:** VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

2 [Resource management in a decentralized system](#)

Daniel H. Craft

October 1983 **ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles**, Volume 17 Issue 5

Full text available: [pdf\(798.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The heterogeneous collection of machines constituting the Processor Bank at Cambridge represents an important set of resources which must be managed. The Resource Manager incorporates these machines into a wider view of resources in a network. It will accept existing resources and specifications for constructing others from existing ones. It will then allocate these to clients on demand, combining existing resources as necessary. Resource management in a decentralized system presents ...

3 [Surpassing the TLB performance of superpages with less operating system support](#)

Madhusudhan Talluri, Mark D. Hill

November 1994 **Proceedings of the sixth international conference on Architectural support for programming languages and operating systems**, Volume 29 , 28 Issue 11 , 5

Full text available: [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)


[terms](#)

Many commercial microprocessor architectures have added translation lookaside buffer (TLB) support for superpages. Superpages differ from segments because their size must be a power of two multiple of the base page size and they must be aligned in both virtual and physical address spaces. Very large superpages (e.g., 1MB) are clearly useful for mapping special structures, such as kernel data or frame buffers. This paper considers the architectural and opera ...

4 Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available:  [pdf\(168.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual machine monit ...

**Keywords:** hypervisors, paravirtualization, virtual machine monitors

5 "Topologies"—distributed objects on multicomputers

Karsten Schwan, Win Bo

May 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 2

Full text available:  [pdf\(3.83 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Application programs written for large-scale multicomputers with interconnection structures known to the programmer (e.g., hypercubes or meshes) use complex communication structures for connecting the applications' parallel tasks. Such structures implement a wide variety of functions, including the exchange of data or control information relevant to the task computations and/or the communications required for task synchronization, message forwarding/filtering under program control, and so o ...

6 Disconnected operation for heterogeneous servers

Dorota M. Huizinga, Patrick Mann

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**


Full text available:  [pdf\(857.48 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** disconnected operation, mobile computing

7 Fast and flexible application-level networking on exokernel systems

Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Héctor M. Briceño, Russell Hunt, Thomas Pinckney

February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Full text available:  [pdf\(500.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Application-level networking is a promising software organization for improving performance and functionality for important network services. The Xok/ExOS exokernel system includes application-level support for standard network services, while at the same time allowing application writers to specialize networking services. This paper describes how Xok/ExOS's kernel mechanisms and library operating system organization achieve this flexibility, and retrospectively shares our experiences an ...

**Keywords:** Extensible systems, OS structure, fast servers, network services

8 Designing and implementing Choices: an object-oriented system in C++

Roy H. Campbell, Nayeem Islam, David Raila, Peter Madany

September 1993 **Communications of the ACM**, Volume 36 Issue 9

Full text available:  pdf(3.22 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** concurrency, concurrent object-oriented programming

9 Information technology, process reengineering, and performance measurement: a balanced scorecard analysis of Compaq computer corporation

William F. Wright, Rodney Smith, Ryan Jessor, Mark Stupeck

February 1999 **Communications of the AIS**

Full text available:  pdf(284.66 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

10 Affinity-based management of main memory database clusters

Minwen Ji

November 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 4

Full text available:  pdf(553.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We study management strategies for main memory database clusters that are interposed between Internet applications and back-end databases as content caches. The task of management is to allocate data across individual cache databases and to route queries to the appropriate databases for execution. The goal is to maximize effective cache capacity and to minimize synchronization cost. We propose an affinity-based management system for main memory database cLusters (*ALBUM*). *ALBUM* executes ea ...

**Keywords:** Main memory database, clustering, database administration, database cluster, file organization, query affinity, scalability

11 Rooms: the use of multiple virtual workspaces to reduce space contention in a window-based graphical user interface

D. Austin Henderson, Stuart Card

July 1986 **ACM Transactions on Graphics (TOG)**, Volume 5 Issue 3

Full text available:  pdf(4.58 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


A key constraint on the effectiveness of window-based human-computer interfaces is that the display screen is too small for many applications. This results in "window thrashing," in which the user must expend considerable effort to keep desired windows visible. Rooms is a window manager that overcomes small screen size by exploiting the statistics of window access, dividing the user's workspace into a suite of virtual workspaces with transitions

among them. Mech ...

12 [XTREM: a power simulator for the Intel XScale® core](#)

Gilberto Contreras, Margaret Martonosi, Jinzhan Peng, Roy Ju, Guei-Yuan Lueh

June 2004 **ACM SIGPLAN Notices , Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools**, Volume 39 Issue 7

Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Managing power concerns in microprocessors has become a pressing research problem across the domains of computer architecture, CAD, and compilers. As a result, several parameterized cycle-level power simulators have been introduced. While these simulators can be quite useful for microarchitectural studies, their generality limits how accurate they can be for any one chip family. Furthermore, their hardware focus means that they do not explicitly enable studying the interaction of different softwa ...

**Keywords:** Java, XORP, XScale, hardware performance counters, power measurements, power modeling

13 [Tarantula: a vector extension to the alpha architecture](#)

Roger Espasa, Federico Ardanaz, Joel Emer, Stephen Felix, Julio Gago, Roger Gramunt, Isaac Hernandez, Toni Juan, Geoff Lowney, Matthew Mattina, André Seznec

May 2002 **ACM SIGARCH Computer Architecture News**, Volume 30 Issue 2

Full text available:  [pdf\(1.19 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
[Publisher Site](#)

Tarantula is an aggressive floating point machine targeted at technical, scientific and bioinformatics workloads, originally planned as a follow-on candidate to the EV8 processor [6, 5]. Tarantula adds to the EV8 core a vector unit capable of 32 double-precision flops per cycle. The vector unit fetches data directly from a 16 MByte second level cache with a peak bandwidth of sixty four 64-bit values per cycle. The whole chip is backed by a memory controller capable of delivering over 64 GBytes/s ...

**Keywords:** Vector Processor, Microprocessor, High Performance, Bandwidth, Power, Instruction Set Architecture, Virtual Memory, Cache Coherency

14 [Risks to the public in computer systems](#)

Peter G. Neumann


April 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 2

Full text available:  [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [index terms](#)

15 [Distributed operating systems](#)

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available:  [pdf\(5.49 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

**16 CMIFed: a transportable hypermedia authoring system**

Lynda Hardman, Guido van Rossum, Jack Jansen, Sjoerd Mullender

October 1994 **Proceedings of the second ACM international conference on Multimedia**

Full text available:  [pdf\(1.93 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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